

Name _____ Hour: _____

Unit Title: Scientific Method and Lab Safety Quiz

Key Concepts: Systems

Related Concepts: Models

Global Context: Scientific and technical Innovation

Statement of Inquiry: Students will use systems, models, and methods to provide a safe class to get quality products and solutions during lab work.

Task: **Scientific Method and Lab Safety Quiz**

Task Description: Prove your understandings of Lab Safety and Scientific Method.

Criterion A: Knowing and Understanding Year 3/Grade 8

Level	Descriptors	Indicators
0	The student does not reach a standard described by any of the descriptors below.	The student does not reach a standard described by any of the descriptors below.
1-2	The student is able to: i. recall scientific knowledge ii. apply scientific knowledge and understanding to suggest solutions to problems set in familiar situations	The student is able to: i. recall scientific knowledge ii. apply scientific knowledge and understanding to suggest solutions to problems set in familiar situations
3 -4	The student is able to: i. state scientific knowledge ii. apply scientific knowledge and understanding to solve problems set in familiar situations	The student is able to: i. state scientific knowledge ii. apply scientific knowledge and understanding to solve problems set in familiar situations
5 -6	The student is able to: i. outline scientific knowledge ii. apply scientific knowledge and understanding to solve problems set in familiar situations and suggest solutions to problems set in unfamiliar situations	The student is able to: i. outline scientific knowledge ii. apply scientific knowledge and understanding to solve problems set in familiar situations and suggest solutions to problems set in unfamiliar situations
7-8	The student is able to: i. describe scientific knowledge ii. apply scientific knowledge and understanding to solve problems set in familiar and unfamiliar situations	The student is able to: i. describe scientific knowledge ii. apply scientific knowledge and understanding to solve problems set in familiar and unfamiliar situations
Your Level:	Teacher Comment	

Command Terms Defined:

Formulate:

Justify:

Evaluate:

Suggest:

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Task Description: Prove your understandings of Lab Safety and Scientific Method.

1. Where should you begin when using scientific method? Why?

2. Pick two components/steps of the scientific method evaluate their contribution to the scientific method.

3. You have been injured in the laboratory (cut, burn, etc.). First you should

- A. visit the school nurse/office after class.
- B. see a doctor after school.
- C. tell the science instructor at once.
- D. apply first aid yourself.

4. When the lights go off what needs to happen in the classroom for all students?

5. Long hair in the laboratory must be
- A. cut short.
 - B. tied back or kept entirely out of the way
6. In a laboratory, the following should not be worn.
- A. loose clothing.
 - B. dangling jewelry.
 - C. sandals.
 - D. all of the above.
7. Horseplay or practical jokes in the laboratory are
- A. always against the rules.
 - B. not dangerous.
 - C. okay if you are working alone.
8. If you do not understand a direction or part of a lab procedure what should you do?

True/False & WHY:

Directions: Decide if the statement is true or false. Justify your answer.

9. _____ It's okay to pick up broken glass with your bare hands as long as the glass is placed in the special glass trash bin.

10. _____ Laboratory work can be started immediately upon entering the laboratory even if the teacher is not yet present.

11. _____ Chipped or cracked glassware is okay to use.

12. What would you do if a laboratory fire erupts?

13. While babysitting, you drop a glass when preparing dinner. What should you do? **Formulate** an answer using information you learned regarding lab safety.

14. Choose one image below (circle it), determine what lab safety expectations are being violated. **Suggest** what should be done in place.

